Evan A Variano

List of Publications by Year
in descending order

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42 papers	1,077 citations	430874 18 h-index	414414 32 g-index
43 all docs	43 docs citations	43 times ranked	1362 citing authors

#	Article	IF	Citations
1	Networks, Dynamics, and Modularity. Physical Review Letters, 2004, 92, 188701.	7.8	103
2	A random-jet-stirred turbulence tank. Journal of Fluid Mechanics, 2008, 604, 1-32.	3.4	93
3	Shape effects on turbulent modulation by large nearly neutrally buoyant particles. Journal of Fluid Mechanics, 2012, 712, 41-60.	3.4	86
4	Rotation of Nonspherical Particles in Turbulent Channel Flow. Physical Review Letters, 2015, 115, 244501.	7.8	83
5	Evaluation of permeability and nonâ€Darcy flow in vuggy macroporous limestone aquifer samples with lattice Boltzmann methods. Water Resources Research, 2013, 49, 216-230.	4.2	69
6	Refractive-index-matched hydrogel materials for measuring flow-structure interactions. Experiments in Fluids, 2013, 54, 1.	2.4	63
7	Into turbulent air: size-dependent effects of von KÃ¡rmÃ¡n vortex streets on hummingbird flight kinematics and energetics. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140180.	2.6	49
8	The contribution of an overlooked transport process to a wetland's methane emissions. Geophysical Research Letters, 2016, 43, 6276-6284.	4.0	46
9	A random synthetic jet array driven turbulence tank. Experiments in Fluids, 2004, 37, 613-615.	2.4	44
10	Homogeneity and isotropy in a laboratory turbulent flow. Experiments in Fluids, 2014, 55, 1.	2.4	43
11	Gas exchange in wetlands with emergent vegetation: The effects of wind and thermal convection at the airâ€water interface. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1297-1306.	3.0	29
12	Rotational kinematics of large cylindrical particles in turbulence. Journal of Fluid Mechanics, 2017, 815, 199-222.	3.4	25
13	Turbulent transport of a high-Schmidt-number scalar near an airâ€“water interface. Journal of Fluid Mechanics, 2013, 731, 259-287.	3.4	22
14	Modeling comprehensive chemical composition of weathered oil following a marine spill to predict ozone and potential secondary aerosol formation and constrain transport pathways. Journal of Geophysical Research: Oceans, 2015, 120, 7300-7315.	2.6	22
15	Mapping spheroid rotation modes in turbulent channel flow: effects of shear, turbulence and particle inertia. Journal of Fluid Mechanics, 2019, 876, 19-54.	3.4	22
16	Flow and mixing dynamics in a patterned wetland: Kilometerâ€scale tracer releases in the Everglades. Water Resources Research, 2009, 45, .	4.2	21
17	On the Anisotropic Vorticity in Turbulent Channel Flows. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	21
18	An insitu borescopic quantitative imaging profiler for the measurement of high concentration sediment velocity. Experiments in Fluids, 2010, 49, 77-88.	2.4	20

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19	Zooplankton in flowing water near benthic communities encounter rapidly fluctuating velocity gradients and accelerations. Marine Biology, 2015, 162, 1939-1954.	1.5	16
20	Rotational diffusion of particles in turbulence. Limnology & Oceanography Fluids & Environments, 2013, 3, 89-102.	1.7	15
21	Scale-dependent alignment, tumbling and stretching of slender rods in isotropic turbulence. Journal of Fluid Mechanics, 2019, 860, 465-486.	3.4	15
22	Tracer studies of sheet flow in the Florida Everglades. Geophysical Research Letters, 2009, 36, .	4.0	14
23	Rotations of large inertial cubes, cuboids, cones, and cylinders in turbulence. Physical Review Fluids, 2018, 3, .	2.5	14
24	Collision of oil droplets with marine aggregates: Effect of droplet size. Journal of Geophysical Research: Oceans, 2016, 121, 3250-3260.	2.6	13
25	Rotations of small, inertialess triaxial ellipsoids in isotropic turbulence. Journal of Fluid Mechanics, 2017, 821, 517-538.	3.4	12
26	Spinning and tumbling of long fibers in isotropic turbulence. Physical Review Fluids, 2021, 6, .	2.5	12
27	Turbulence modulation by large ellipsoidal particles: concentration effects. Acta Mechanica, 2013, 224, 2291-2299.	2.1	9
28	Corrections for one- and two-point statistics measured with coarse-resolution particle image velocimetry. Experiments in Fluids, 2014, 55, 1.	2.4	9
29	Development and performance of a 1Dâ€“2D coupled shallow water model for large river and lake networks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 852-865.	1.7	9
30	Turbulence statistics in a negatively buoyant multiphase plume. Journal of Fluid Mechanics, 2020, 896, .	3.4	9
31	Slip velocity of large low-aspect-ratio cylinders in homogeneous isotropic turbulence. International Journal of Multiphase Flow, 2019, 121, 103120.	3.4	8
32	Seasonal, Springâ€Neap, and Tidal Variation in Cohesive Sediment Transport Parameters in Estuarine Shallows. Journal of Geophysical Research: Oceans, 2019, 124, 7265-7284.	2.6	8
33	Lagrangian Time Scale of Passive Rotation for Mesoscale Particles in Turbulence. Frontiers in Marine Science, 2020, 7, .	2.5	8
34	Quantitative Imaging of CO2 Transfer at an Unsheared Free Surface. Environmental Science and Engineering, 2007, , 43-57.	0.2	8
35	Windâ€driven water motions in wetlands with emergent vegetation. Water Resources Research, 2016, 52, 2571-2581.	4.2	7
36	ECOSTRESS and CIMIS: A Comparison of Potential and Reference Evapotranspiration in Riverside County, California. Remote Sensing, 2020, 12, 4126.	4.0	7

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37	Measurements of trajectories and spatial distributions of diatoms (Coscinodiscus spp.) at dissipation scales of turbulence. Experiments in Fluids, 2021, 62, 1.	2.4	6
38	Lagrangian measurement of fluid and particle motion using a field-deployable Volumetric Particle Imager (VoPI). Limnology and Oceanography: Methods, 2013, 11, 225-238.	2.0	4
39	Turbulence in the presence of internal waves in the bottom boundary layer of the California inner shelf. Ocean Dynamics, 2018, 68, 627-644.	2.2	4
40	A new particle for measuring mass transfer in turbulence. Experiments in Fluids, 2021, 62, 1.	2.4	4
41	Droplet and particle methods to investigate turbulent particle laden jets. Aerosol Science and Technology, 2021, 55, 1359-1377.	3.1	3
42	Analytical solution for the Kelvinâ€“Helmholtz instability under a submerged canopy-oscillatory flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 220-228.	1.7	2